This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A dialyzer inlet header comprising:

a body that is designed to be attached to an end of a dialyzer;

an inlet channel providing fluid communication from an exterior of the dialyzer to an interior of the dialyzer, the inlet channel defining a fluid flow path that is axial to a fiber bundle located in the interior of the dialyzer; and

at least one member for modifying the fluid flow path of a fluid as it exits the inlet channel, wherein the member includes a curved vane extending from a portion of the body.

2. (canceled)

3. (currently amended) The dialyzer inlet header of Claim ~~2~~1 including eight vanes.

4. (original) The dialyzer inlet header of Claim 1 wherein the inlet channel is located at a center of the body.

5. (original) The dialyzer inlet header of Claim 1 wherein the header is sealed to an end of a dialyzer casing.

6. (currently amended) The dialyzer inlet header of Claim 1 wherein the member for modifying the fluid flow path ~~is~~defines a curved channel extending into a portion of the body.

7. (original) The dialyzer inlet header of Claim 6 including eight channels extending into the body.

8. (original) The dialyzer inlet header of Claim 1 wherein the member for modifying the fluid flow path obstructs the flow of fluid as it exits the fluid channel.

9. (currently amended) The dialyzer inlet header of Claim 8 wherein the member for modifying the fluid flow path ~~is~~further includes a disk located under an exit opening of the inlet fluid channel.

10. (original) The dialyzer inlet header of Claim 9 wherein the body includes a plurality of curved vanes.

11. (original) The dialyzer inlet header of Claim 9 wherein the body includes a plurality of curved channels.

12. (currently amended) A dialyzer comprising:

a body defining an interior and having a first end and a second end;

a fiber bundle located in the interior;

a blood inlet located at the first end and including a fluid flow channel that causes the blood to flow in an axial direction with respect to the fiber bundle; and

a member located in juxtaposition and integral to the blood inlet that causes blood to flow to a perimeter region of a first end of the fiber bundle.

13. (original) The dialyzer of Claim 12 wherein the member is a curved vane extending from a portion of the body.

14. (original) The dialyzer of Claim 12 wherein inlet channel is located at a center of the body.

15. (previously amended) The dialyzer of Claim 12 wherein the blood inlet is sealed to an end of the dialyzer body.

16. (original) The dialyzer of Claim 12 wherein the member is a curved channel extending into a portion of the body.

17. (original) The dialyzer of Claim 12 wherein the member is a disk located under an exit opening of the inlet fluid channel.

18. (previously amended) The dialyzer of Claim 17 wherein the member includes a plurality of curved vanes.

19. (original) The dialyzer of Claim 17 wherein the member includes a plurality of curved channels.

20. (original) The dialyzer of Claim 12 including a dialysate inlet and a dialysate outlet that define fluid flow channels that are radial to the fiber bundle.

21. (currently amended) A dialyzer header comprising a body member having an inlet channel providing fluid communication from an exterior to an interior of the header, the inlet channel defining a fluid path that is axial to a casing of a dialyzer to which the dialyzer head is attached and the body member including a plurality of members that extend from the body member and that impart a circular motion to the fluid as it enters the interior of the header.

22. (original) The dialyzer header of Claim 21 wherein the members are a plurality of curved vanes.

23. (original) The dialyzer header of Claim 20 wherein the members are a plurality of curved channels.

24. (original) The dialyzer header of Claim 21 wherein the members include a device that obstructs the flow of the fluid into portions of the interior of the header.

25. (original) The dialyzer header of Claim 24 wherein the device that obstructs is a disk located under the inlet channel.

26. (original) The dialyzer inlet header of Claim 21 wherein inlet channel is located at a center of the body.

27. (original) The dialyzer inlet header of Claim 21 including eight vanes.

28. (original) The dialyzer inlet header of Claim 21 including eight channels extending into the body member.

29-32 (canceled)